

RUBANOVICH, Yakov Grigor'yevich; KOROL'KOV, Mikhail Fedorovich;  
MEKINULOV, R.D., red.

[Technical and economic bases of the service life of  
manufactured articles] Tekhniko-ekonomiceskoe obosnova-  
nie srokov sluzhby izdelii. Leningrad, 1964. 25 p.  
(MIRA 17:11)

RUBANOVICH, Yakov Grigor'yevich, inzh.; SHATS, Iosif Samoylovich, inzh.;  
ZHERUMSKAYA, L.B., inzh., red.; FREGER, D.P., red. izd-va;  
BOL'SHAKOV, V.A., tekhn. red.

[Increasing the strength and wear resistance of machine parts;  
experience of the "Pneumatic" Factory in Leningrad] Povyshenie  
prochnosti i iznosostoinosti detalei mashin; opyt leningradskogo  
zavoda "Pnevmatika." Leningrad, 1962. 20 p. (Leningradskii Dom  
nauchno-tekhnicheskoi propagandy. Obmen peredovym opyтом. Seria:  
Metallovedenie i termicheskaya obrabotka, no.1). (MIRA 15:3)  
(Machinery—Maintenance and repair)

RUBANOVICH, Ye.A., mladshiy nauchnyy sotrudnik; SHTENBERG, A.I., prof.;  
GENEL', S.V., kand.med.nauk

Synthetic detergents in the food industry. Gig.i san. 26 no.12:  
69-72 D '61. (MIRA 15:9)

1. Iz otsele gigiyeny pitaniya Moskovskogo instituta gigiyeny  
imeni F.F.Erismana i laboratorii upakovochnykh i polimernykh  
materialov Vsesoyuznogo nauchno-issledovatel'skogo i eksperi-  
mental'no-konstruktorskogo instituta prodovol'stvennogo mashino-  
stroyeniya.

(FOOD -~~SANITATE~~) (CLEANING COMPOUNDS)

USSR/General Biology. Individual Development.  
Embryonic Development.

B-4

Abs Jour : Ref Zhur-Biol., No 16, 1958, 71594

Author : Rubanovskaya, A. A.

Inst :

Title : Accumulation of Radioactive Strontium and  
Cesium in the Body of Embryos with Repeated  
Introduction of These Isotopes into Females.

Abstract : Female rabbits and rats received radioactive strontium S89 and radioactive cesium Cs134 orally before and during pregnancy and during the lactation and feeding periods of the young. The content of S89 and Cs134 were determined in the organs of the embryos and newborn animals at different periods before and after birth. Tests showed that the accumulation of these isotopes in the body of the

Card : 1/3

USSR/General Biology. Individual Development.  
Embryonic Development.

B-4

Abs Jour : Ref Zhur-Biol., No 16, 1958, 71594

fetus depends wholly upon the quantity of isotopes which the females received during pregnancy. The newborn young from females which had received various quantities of Sr89 or of Cs134 before pregnancy, contained approximately the same quantity of isotopes in the skeleton. The introduction of Sr89 and Cs134 into nursing females leads to a sharp increase in the content of these isotopes in the organs of the young. A decrease of the content of Sr89 and Cs134 in the body tissues of the young begins only after the full transfer to independent feeding has taken place. The character of the

Card : 2/3

20

RUBANOVSKAYA, A.A.; MAYEVSKAYA, I.

Reducing ability of tissues at various ages. Uch.zap. KGU  
53:199-205 '54. (MIRA 11:11)

1. Otdel fiziologii nauchno-issledovatel'skogo instituta biologii  
Khar'kovskogo gosudarstvennogo universiteta imeni A.M.Gor'kogo.  
(AGE) (DEHYDROGENATION)

RUBANOVSKAYA, A.A.; STEPANCHENKO, V.K.

Effect of the addition of certain hydrogen donors on reduction  
processes in tissues at various ages. Uch.zap. KHGU 53:207-213  
'54. (MIRA 11:11)

1. Otdel fiziologii nauchno-issledovatel'skogo instituta biologii  
Khar'kovskogo gosudarstvennogo universiteta imeni A.M.Gor'kogo.  
(AGB) (DEHYDROGENATION)

REBANOVSKAYA, A.A. (Moskva)

Effectiveness of complecin and the CaNa<sub>2</sub> salt of ethylenedinitrils  
tetra-acetic acid in acute plumbate poisoning. Gig. truda i prof.  
zab. 4 no.3:37-41 Mr '60. (MIRA 15:4)

1. Institut gigiyeny truda i professional'nykh zabolеваний AMN SSSR.  
(LEAD--TOXICOLOGY) (ACETIC ACID)

BRASLAVSKIY, Iosif Moiseyevich [Braslav's'kyi, I.M.]; RUBANOV'S'KYI, P.M.  
otv.red.; TUBOLEVA, M.V. [Tubolieva, M.V.], red.

[Special features in the postwar development of the capitalist  
economy] Osoblyvosti pisliavoennoho rozvytku svitovoї kapi-  
talistichnoї ekonomiky. Kyiv, 1960. 33 p. (Tovarystvo dlia  
poshyrennia politychnykh i naukovykh znan' Ukrains'koї RSR.  
Ser.2, no.2).

(Economic conditions)

U.S.S.R. / Human and Animal Physiology. Action of Physical Agents. Ionizing Irradiation.

T

Abs Jour: Ref Zhur-Biol., No 5, 1958, 22789

Author : Rubanovskya, A.A., Yushakova, V.F.

Inst : Not given.

Title : The Dynamics of Radioactive Strontium Deposit in Hones of Rat By Prolonged Ingestion.

Orig Pub: sb., Materialy po toksikol.radicaktion veshch-estv. Vyp. 1.m., Medgiz.1957, 13-23.

Abstract: One group of animals were fed Sr<sup>89</sup> 5-6 times weekly in doses of 0.65 microcuries, a second group -Sr 89 + 90 5-6 times weekly in doses of 1.8 microcuries. The radio activity of the femur was determined after it was burned in a Mufel Oven. The radio activity of the bone increased until the 24th day, following which, it

Card 1/2

120

U.S.S.R. / Human and Animal Physiology. Action of  
Physical Agents: Ionizing Irradiation.

T

Abs Jour: Ref Zhur-Biol., No 5, 1958, 22789

Abstract: practically remained unchanged. The authors  
conclude that between the 24-27 day an equilibrium  
is established between elimination and  
adsorption by bone of radioactive Sr.

Card 2/2

RUBANOVSKAYA, A. A.

V-12

USSR/Human and Animal Physiology - The Effect of Physical  
Factors.

Abs Jour : Ref Zhur - Biol., No 4, 1958, 18798

Author : A.A. Rubanovskaya and V.F. Ushakova

Inst : -  
Title : The Accumulation of Radioactive Strontium in Young Rats  
Born from and Nursed by Females Receiving Sr<sup>89</sup> and Sr<sup>90</sup>  
Orally for a Long Period of Time.

Orig Pub : Materialy po toksikol. radioaktivn. veshchestv. Vyp. 1,  
Moskva, Medgiz, 1957, 23-31

Abstract : The rats of one group were given a daily dose of about  
0.65 microcuries of Sr<sup>89</sup> and those of another group a  
daily dose of 0.3 microcuries of Sr<sup>89-90</sup>. The Sr was  
given before and during pregnancy and during nursing  
until the young rats were a month old. The radioactivi-  
ty determinations were accomplished by measuring the ac-  
tivity of a weighed portion of the dry ash of the young

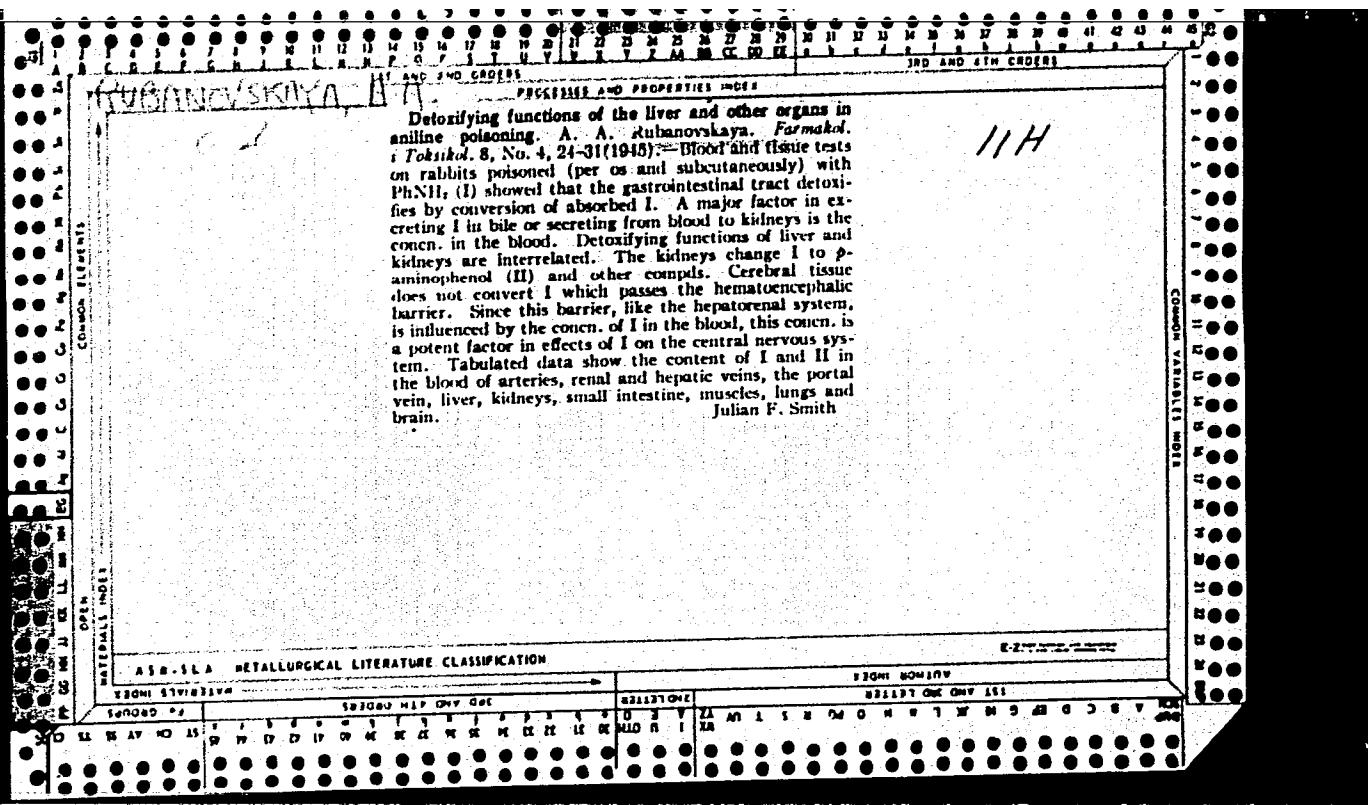
Card 1/2

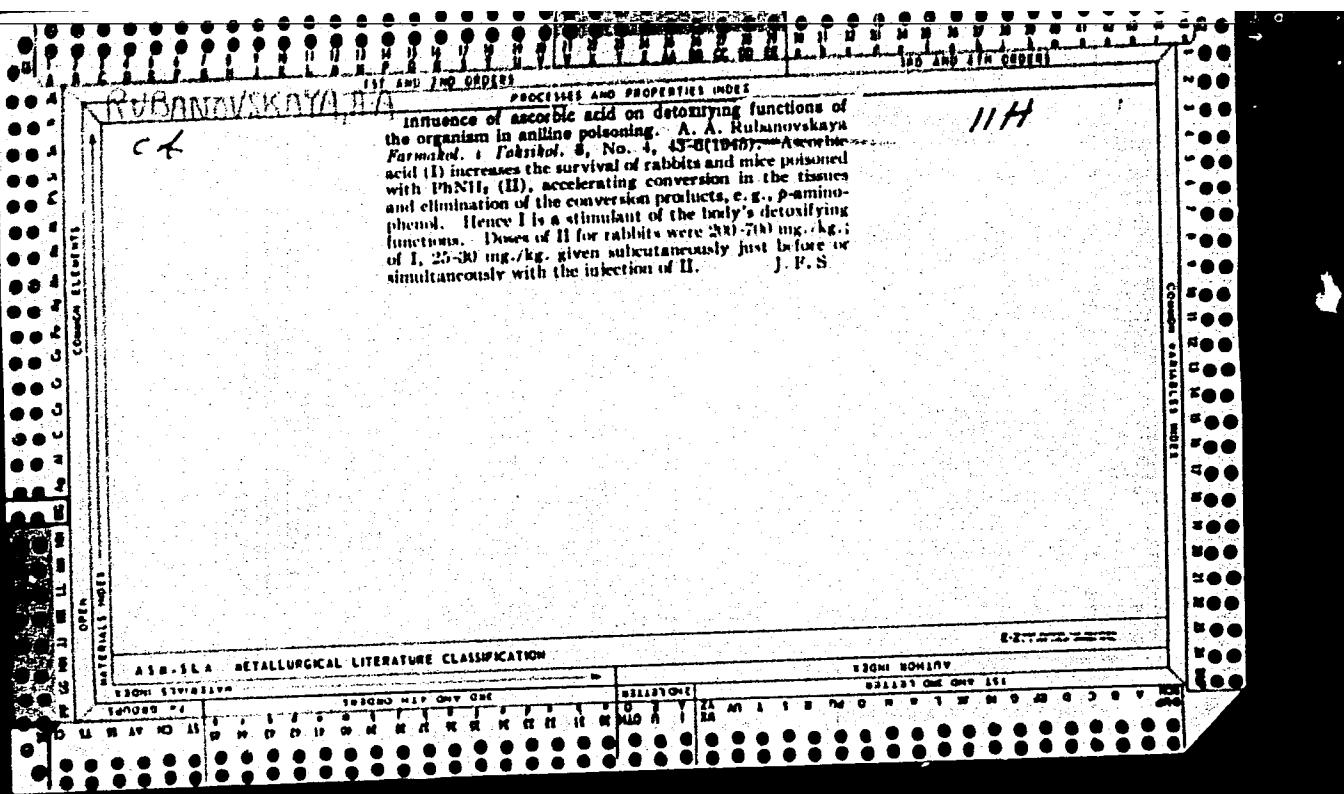
YCCR/Human and Animal Physiology - The Effect of Physical Factors.

Abs Jour : Ref Shur - Biol., No 4, 1953, 16703

rats. The accumulation of Sr in their bodies were determined chiefly by the amount of the isotope which had been received by the females during pregnancy. Sr fixed in the mother's body before pregnancy infiltrated into the offspring only to a negligible extent. Giving Sr to the female during lactation increased the amount of it in the young rats. When a full transition had been made to independent feeding, the concentration of Sr in the young rats decreased rapidly, and it had completely disappeared when they reached the age of 7 to 7½ months.

Card 2/2





RUBANOVSKIY, B.R., dotsent

Treatment and prevention of seizures of paroxysmal tachycardia.  
(MIRA 18:10)  
Sov. med. 28 no.3:21-27 Mr '65.

1. Klinika gospital'noy terapii (zav. - prof. A.S.Veronov)  
Donetskogo meditsinskogo instituta na baze Oblastnoy tsentral'noy  
klinicheskoy bol'nitsy (glavnyy vrach V.D.Bayda).

RUBANOVSKIY, B.R., kand. med. nauk

Etafen therapy in angina pectoris and myocardial infarct. Sov.  
med. 28 no.9:17-21 S '65.  
(MIRA 18:9)

1. Gospital naya terapevticheskaya klinika (zav. - prof. A.S.  
Voronov) Donetskogo meditsinskogo instituta na baze TSentral'noy  
klinicheskoy bol'nitsy (glavnnyy vrach V.D.Bayda).

USSR/Human and Animal Physiology (Normal and Pathological).  
Heart.

T-4

Abs Jour : Ref Zhur - Biol., No 16, 1958, 74768

Author : Rubanovskiy, B.R.

Inst : Ukrainian Scientific-Research Institute of Clinical  
Medicine.

Title : Significance of Electrocardiographic Investigation in the  
Diagnosis of Anuerysm of the Heart.

Orig Pub : Materialy po obmenu nauchn. inform. Ukr. n.-i. in-t  
klinich. meditsiny, 1957, vyp. 1, 136-138.

Abstract : No abstract.

Card 1/1

GALYAMIN, Aleksey Vasil'yevich; HUBANOVSKAYA, Yevgeniya Aleksandrovna;  
KRYUKOV, V.L., red.; ZUBRILINA, Z.P., tekhn.red.; GUREVICH,  
M.M., tekhn.red.

[Spare parts list for machines used in the control of pests  
and diseases of farm crops] Katalog zapasnykh chastei  
k mashinam po bor'be s vrediteliami i bolezniami sel'sko-  
khoziaistvennykh kul'tur. Moskva, Gos.izd-vo sel'khoz.  
lit-ry, 1959. 102 p. (MIRA 14:12)  
(Agricultural machinery)

RUBANOVSKIY, B. R.

RUBANOVSKIY, B. R.: "The significance of electrocardiographic investigation  
for the delimiting the stages and clinical forms of hypertonic  
disease." L'vov State Medical Inst. Stalino, 1955. (Dissertation  
For the Degree of Candidate in Medical Sciences.)

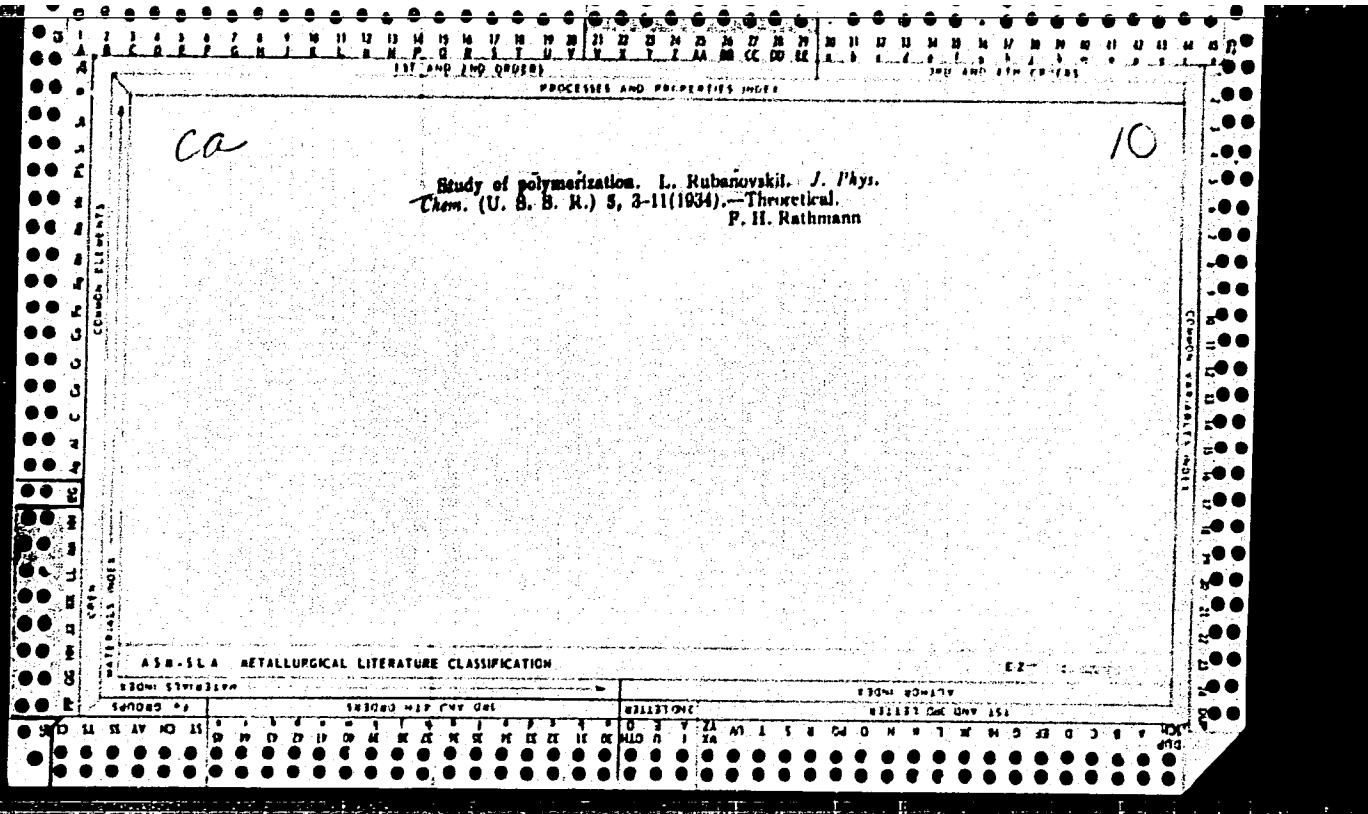
Knizhnaya letopis', No. 39, 1956. Moscow.

## PROCESSES AND PROPERTIES INDEX

The kinetics of polymerization of butadiene in a glow discharge. L. Rubanovskii. *J. Phys. Chem.* (U. S. S. R.) 4, 431 (1933). - During the action of the glow discharge on butadiene at a pressure of  $10^{-3}$  to  $10^{-1}$  mm., the pressure in the discharge tube increases to what corresponds to the cracking of the butadiene; at a pressure above  $10^{-1}$  mm., it decreases because of the polymerization of butadiene. Polymerization is also caused by the shock impact of the H atom during discharge in the mixt. of H and butadiene. The induction period of 3-7 min., typical for chain reactions, was observed in

all cases of polymerization. The chain character of the reaction is confirmed by the acceleration of the latter by admixed A and O<sub>2</sub>, which hamper the diffusion and the breaking of chains on the sides of the tube, and also by the fact that the process is about 20% faster in a 10 cm. tube than in a 1.5 cm. tube. The kinetics of the process are affected neither by the characteristics of the discharge nor by the material of the electrodes. F. H. R.

## ASH-SLA METALLURGICAL LITERATURE CLASSIFICATION



RUBANOVSKIY, B.R.

Characteristics of clinical myocardial infarction and block  
of the right branch of the bundle of His. Kardiologiya 1  
no. 5:81-82 '62. (MIRA 17:4)

PSCHENICHNYY, I.P.; SHTEYCARDT, Yu.N.; MESHCHERYAKOV, A.V.; VASIL'YEV, V.N.;  
SOKOLOVA, E.F.; BROVKOVICH, E.D.; RUBANOVSKIY, B.R.; LUR'YE, R.G.;  
PARAKHONYUK, Z.M.; GOROKHOVSKIY, B.I.; ZHDANOV, V.S.; GOREBUNOVA, Z.V.  
GLIKIN, M.I.; TAVAR'YAN, E.A.; SUKHODOLYA, Ye.I.

Abstracts. Kardiologiya 4 no.4:87-90 Jl-Ag '64. (MIRA 19:1)

RUBANOVSKIY, B. R., kand. med. nauk; GOL'DINA, TS. M.

Two cases of sarcaleucosis. Vrach. delo no.6:148-150 Je '62.

1. Gospital'naya terapevticheskaya klinika (zav. - prof. A. S. Voronov) Donetskogo meditsinskogo instituta na baze oblastnoy tsentral'noy klinicheskoy bol'nitsy.

(LEUKEMIA)

RUBANOVSKIY, B.R., kand.med.nauk

Treatment with neodicoumarin of myocardial infarct.  
Vrach. delo no.5:13-16 My '62. (MIRA 15:6)

1. Gospital'naya terapeuticheskaya klinika (zav. - prof. A.S.  
Voronov) Donetskogo meditsinskogo instituta na baze Oblastnoy  
tsentral'noy klinicheskoy bol'nitsy.  
(HEART--INFARCTION)  
(COUMARIN)

RUBANOVSKIY, B.R., kand.med.nauk

Treatment of angina pectoris with hexonium. Vrach. delo no. 1:22-25  
'61. (MIRA 14:4)

1. Gospital'naya terapeuticheskaya klinika (zav. - prof. A.S.  
Voronov) Stalinskogo meditsinskogo instituta na baze Oblastnoy  
klinicheskoy bol'nitsy.  
(ANGINA PECTORIS) (HEXONIUM)

"APPROVED FOR RELEASE: 08/22/2000

CIA-RDP86-00513R001445810005-3

MAGAZANIK, A.; HUBANOVSKIY, P.

Field work of students. Fin.i kred. SSSR no.6:61-63 Je '53. (MLR▲ 6:6)  
(Finance--Study and teaching)

APPROVED FOR RELEASE: 08/22/2000

CIA-RDP86-00513R001445810005-3"

GOLOVACH, Anatoliy Varfolomeyevich [Holovach, A.V.]; IVANITSKIY, Vladimir  
Ivanovich [Ivanytskyi, V.I.]; RUBANOVSKIY, P.M. [Rubanovs'kyi, P.M.],  
otv. red.; SKRIPNIK, V.T. [Skrypnyk, V.T.], red.

[Commodity and monetary relations during the period of large-scale  
building of communism] Tovarno-hroshovi vidnosyny v period rozhormu-  
toho budivnytstva kommunizmu. Kyiv, 1961. 46 p. (Tovarystvo dlia  
poshyrennia politychnykh i naukovykh znan' Ukrains'koi RSR. Ser.3,  
no.3) (MIRA 14:7)

(Russia—Commerce)

SUKHAREVSKIY, Boris Mikhaylovich [Sukharevs'kyi, B.M.], kand.ekon.nauk;  
RUBANOVSKIY, P.M. [Rubanovs'kyi, P.M.], otv.red.; LESMAYA, A.A.  
[Liesnaia, A.A.], red.

[Distribution of material goods and cultural welfare at the  
present stage] Rozpodil material'nykh i duchovnykh blah na  
suchastnomu etapi. Kyiv, 1960. 37 p. (Tovarystvo dlia poshyrennia  
politychnykh i naukovykh znan' Ukrains'koi RSR, Ser.1, no.35).  
(MIRA 14:4)

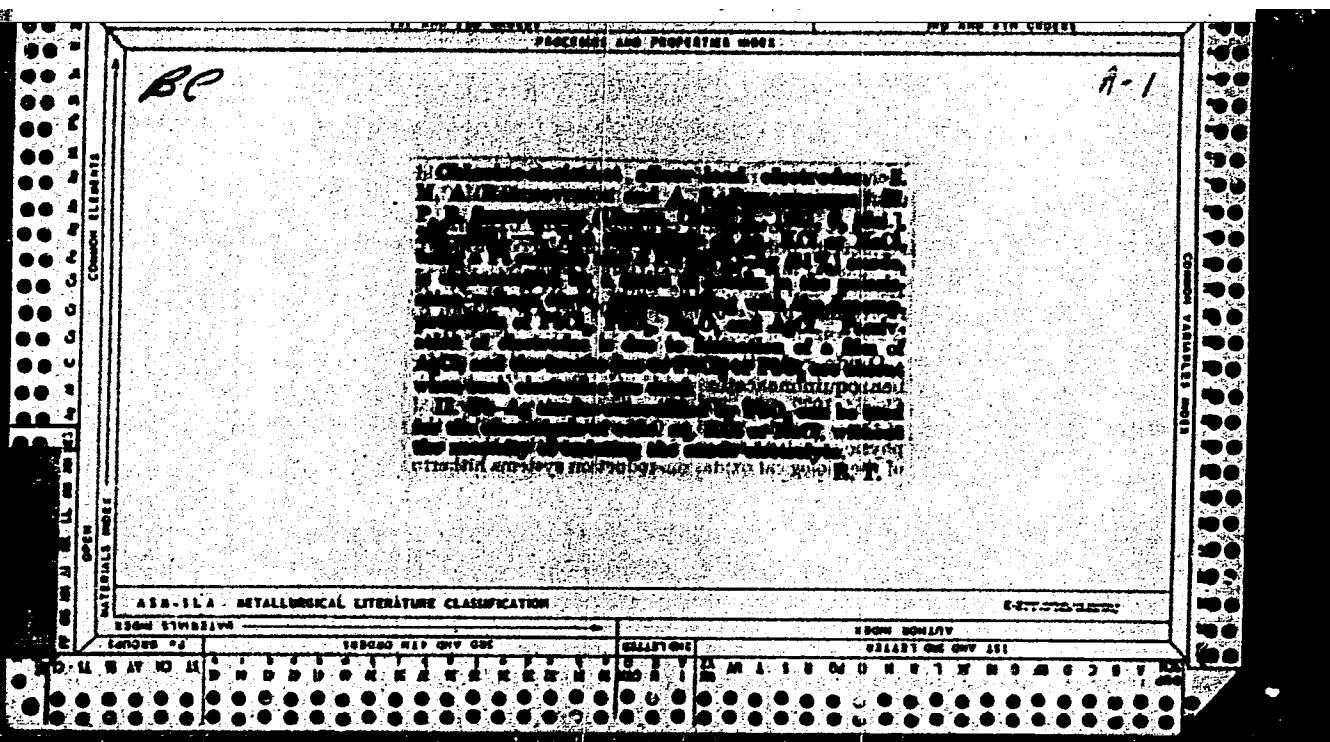
(Wage payment systems)

AL'EMENTYOROV, Iosif ivanovich [AL'EMENTYOROV, Iosif Ivanovich], RUBANOVSKIY,  
P.M. [RUBANOV'SKIY, P.M.], red.; LYSENKO, F.K. [LYSENKO, F.K.], red.

[Development of Ukrainian commerce] Rozvytok torhivli Ukrains'koj  
RSR. Kyiv, 1958 35 p. (Tovarystvo dlja poshyrenia politychnykh  
i naukovykh znan' Ukrains'koj RSR, Ser. 2, no.6). (KIBA 11:8)  
(Ukraine--Commerce)

"APPROVED FOR RELEASE: 08/22/2000

CIA-RDP86-00513R001445810005-3



APPROVED FOR RELEASE: 08/22/2000

CIA-RDP86-00513R001445810005-3"

HUBANYI, P.;GOMORI, P.

Surgical therapy of essential hypertension. Magy. belorv. arch 3 no.3:  
102-106 1950. (CLML 25:5)

1. Doctors. 2. First Surgical Clinic (Director -- Prof. Dr. Gyula  
Sebesteny), Third Surgical Clinic (Director -- Prof. Dr. Borisz  
Petrovszkij), First Internal Clinic (Director -- Prof. Dr. Istvan  
Rusznyak) of Budapest University.

RUBANYI, Pal. dr.; SZECSENY, Andor, dr.

Indications and technic of thoracolaparotomy. Magy.sebesz.  
17 no.2:65-70 Ap'64.

1. A Budapesti Orvostudomanyi Egyetem II. sz. Sebeszeti  
Klinikajának (Igazgató: Rubanyi, Pal. dr. egyetemi tanár)  
közleménye.

\*

HUNGARY

NAGY, Laszlo, Dr, RUBANYI, Pal, Dr, SIKLOS, Istvan, Dr, SZUCS, Janos, Dr; Medical University of Budapest, II. Institute of Pathological Anatomy (director: HARANGHY, Laszlo, Dr, prof.), I. Surgical Clinic (director: RUBANYI, Pal, Dr, prof.) and I. Medical Clinic (director: MAGYAR, Imre, Dr, prof.) (Budapesti Orvostudomanyi Egyetem, II. sz. Korbonctani Intezet, I. sz. Sebeszeti Klinika es I. sz. Belgyogyaszati Klinika).

"Problems of the Treatment of Island-Adenomas of the Pancreas and Hyperinsulinism."

Budapest, Magyar Sebeszet, Vol XIX, No 4, Aug 66, pages 227-235.

**Abstract:** [Authors' Hungarian summary] The pathology, diagnosis, symptomatology and therapy of island-adenomas of the pancreas and other disorders causing hyperinsulinism are discussed in the article. In a case described, an insuloma with signs of malignant changes was successfully removed. The importance of an early diagnosis is stressed. Similar cases were not found in the domestic literature. 12 Eastern European, 18 Western references.

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-43 -

RUBANYI, Pal

HUNGARY

MD

No.2 Surgery Clinic, Medical School, University  
of Budapest (Budapesti Orvostudomanyi Egyetem  
II.sz. Sebeszeti Klinikaja), Director: Professor  
Pal RUBANYI, MD.

Budapest, Orvoskepzes, No 5, Oct 62, pp 337-354.

"Surgery of the Region of the Cardia."

RUBANYI, P., prof.; KOS, R.dr.

Actual problems of antibiotic treatment in surgical practice.  
Ther. Hung. 11 no.4:5-10 '63

I. Second Department of Surgery (Director: Prof. P.Rubanyi),  
University Medical School of Budapest.

\*

GOMORI, P.; RUBANYI, P.; KALDOR, A.

Data on problem of the relationship between hypertension and essential hypertension with special reference to indications for thoracolumbar sympathectomy. Magy. belorv. arch 3 no.3:106-108 1950. (CMLL 25:5)

1. Doctor for Gomori and Rubanyi. 2. First Internal Clinic (Director -- Prof. Dr. Istvan Rusznyak) and First Surgical Clinic (Director -- Prof. Dr. Gyula Sebesteny) of Budapest University.

RUBANYI, P.

The status and objectives of surgical research in Hungary. Magy.  
sebeszet 6 no.3:161-165 Aug 1953. (CIML 25:5)

1. Doctor.

RUBANYI, P.

Significance of blood transfusion in surgery. Orv. hetil., Budapest. 93  
no.3:71-74 20 Jan 52. (CIML 21:5)

1. Doctor.

RUBANYI, P.

Contribution to pathology and therapy of some diseases of the  
esophagus. Cas. lek. cesk. 101 no.23:725-729 8 Je '62.

1. II chirurgicka klinika lekarske fakulty university v Budapesti,  
prednosta prof. dr. P. Rubanyi.

(ESOPHAGUS dis)

RUBANYI, Pal, Dr.; SZEKELY, Janos, Dr.; NEMETH, Eva P., Dr.

Pre- and postoperative dosage of degranol in operable cancer patients. Magy. sebeszet 12 no.1:65-68 Mar 59.

1. A Budapesti Orvostudomanyi Egyetem III. sz. Sebeszeti Klinika-janak kozlemenye. Igazgato: Rubanyi Pal dr. egyetemi tanar.

(NITROGEN MUSTARD, ther. use  
1,6-bis-( $\beta$ -chloroethylamino)-1,6-desoxy-D-mannitol  
in cancer, pre- & postop. dos. (Hun))

(MANNITOL, related cpds.  
1,6-bis-( $\beta$ -chloroethylamino)-1,6-desoxy-D-mannitol  
ther. in cancer, pre- & postop. dos. (Hun))

RUBANYI, Pal, Dr.

Vilmos Milko, 1878-1956. Magy. sebeszet 11 no.1:7-8 Feb 58.

(OBITUARIES

Milko, Vilmos (Hun))

Surgery

HUNGARY

RUBANYI, Pal, Dr, professor; Medical University of Budapest, I. Surgical Clinic (FOTE -- Budapesti Orvostudomanyi Egyetem, I. sz. Sebeszeti Klinika).

"Acute, Massive Hemorrhages in the Digestive Tract."

Budapest, Magyar Sebeszet, Vol XX, No 1, Feb 67, pages 5-10.

Abstract: The article is a report delivered at the 1966 International Conference of the Hungarian Surgical Society. Four aspects of the problem, thought to be the most relevant ones today in Hungary, are discussed in the article. 1) Where to admit the patient with severe, acute, massive hemorrhage. 2) What is defined as massive hemorrhage from a clinical standpoint. 3) What diagnostic procedures should be used for the determination of the source, site and character of the hemorrhage including the evaluation of these procedures. 4) A survey and evaluation of our present knowledge concerning therapy. The indications, contraindications and timing of surgical therapy are also discussed briefly. No references.

1/1

ENDES, P.; TAKACS-NAGY, L.; RUBANYI, P.; GOMORI, P.

The pathogenesis of malignant hypertension. Acta morph.hung.  
5 no.1-2:113-131 1955.

1. 3rd Department of Surgery (Director: Prof. P. Rubanyi) and  
3rd Department of Medicine (Director: Prof. P. Gomori) of the  
Medical University, Budapest.

(HYPERTENSION, pathology,

kidneys, biopsy & autopsy findings)

(KIDNEYS, in various diseases,

hypertension, biopsy & autopsy findings)

RUBANYI, Pal, dr.

Preoperative and postoperative care in the light of the Pavlovian theory. Magy. sebeszet 7. no.1:1-8 Feb 54.

1. Budapesti Orvostudomanyi Egyetem III. sz. Sebészeti klinika-janak kozlemenye. Igazgató: Rubanyi Pal dr. egyetemi tanár.

(PREOPERATIVE CARE)

Pavlovian theory)

(POSTOPERATIVE CARE

Pavlovian theory)

RUBANYI, Pal, dr.

Sabesteny Gyula dr. Orv. hetil. 95 no.33:885-886 15 Aug. 54.  
(BIOGRAPHIES  
Sebesteny, Gyula)

HUNGARY

RUBANYI, Pal, Dr, KOS, Rudolf, Dr; Medical University of Budapest,  
II. Surgical Clinic (Budapesti Orvostudomanyi Egyetem II. sz. Sebeszeti  
Klinikaja) (director: RUBANYI, Pal, Dr, professor).

"Present Problems of Antibiotic Treatment in Surgery."

Budapest, Maryar Sebeszet, Vol XVI, No 2, May 1963, pages 84-93.

Abstract: [Authors' German summary modified] The authors stress the great advance made in surgery by the use of antibiotics. The mortality rate of pyogen infections decreased dramatically. This usefulness of the antibiotics is somewhat reduced by the drawbacks which are present. Therefore, their use has to be considered carefully, especially in surgery. In the hospital, the number of resistant staphylococcus strains increased from 40 to 90 per cent in the last decade and 60 per cent of the personnel became carriers. A year-long discontinuation of the use of penicillin did not improve the picture significantly. The authors advocate a directed application of antibiotics based on determinations of the sensitivity of the causative agent. Further limitations of their prophylactic use is also necessary. The guiding lines for a rational antibiotic therapy of surgical patients are given and the danger of their thoughtless use stressed. 14 Eastern European, the rest Western ref.

1/1

1

HUNGARY

SZECSENY, Andor, Dr; Medical University of Budapest, II. Surgical Clinic (Budapesti Orvostudomanyi Egyetem, II. sz. Sebeszeti Klinika) (director: RUBANYI, Pal, Dr, professor).

"Surgical Significance of the Vena Portae Thrombosis Associated with Cirrhosis."

Budapest, Magyar Sebeszet, Vol XVI, No 2, May 63, pages 109-114.

Abstract: [Author's German summary] Among 20 cases of surgery for end-to-side porta-cava anastomosis, thrombosis of varying grade and character, of the vena portae was observed in five. After description of the cases, it is stated from direct observation that a thrombosis of the portal vein or its branches was present in more than 25 per cent of the cases. Based on these experiences it is assumed that esophageal hemorrhage following cirrhosis occurs more often in patients with a thrombosis of the portal vein system. The shunt can be carried out without removal of the smaller clots; a larger clot, however, should be removed before preparation of the anastomosis. In such cases, postoperative use of anticoagulants is advised. 1 Hungarian, 10 Western references.

1/1

USSR/Cultivated Plants - Potatoes, Vegetables, Melons.

M.

Abs Jour : Ref Zhur - Biol., No 10, 1958, 44109

Author : Grebinskiy, S.O., Yermakova, A.M., Rubanyuk, E.A., Bogdanovich, I.S.

Inst : L'vov University.

Title : The Effect of Fertilizers with Microelement Dressing on the Crop of Early Hothouse Vegetables and Their Vitamin C Content.

Orig Pub : Dopovid ta povidomleniya. L'viv's'k. un-t, 1957, vyp. 7, c. 3, 133-138.

Abstract : No abstract.

Card 1/1

GREBINSKIY, S.O.; YERMAKOVA, A.A.; POPOVICH, I.V.; RUBANYUK, Ya.A.

Effect of fertilizers on the amount of vitamins B<sub>1</sub>, B<sub>2</sub>, B<sub>6</sub>, and  
ascorbic acid in leafy vegetables. Nauch. dokl. vys. shkoly; biol.  
nauki no.2:130-133 '58. (MIRA 11:10)

1. Predstavlena kafedroy fiziologii rasteniy L'vovskogo gosudarstven-  
nogo universiteta imeni Ivana Franko.  
(Vegetables) (Vitamins) (Fertilizers and manures)

RUBANYUK, Ye.A.

GRIBINSKIY, S.O. [Hrebins'kyi, S.O.]; YERMAKOVA, A.A.; RUBANYUK, Ye.A.;  
BOGDANOVICH, I.S. [Bohdanovych, I.S.]

Effect of fertilizers with microelements on the yield of early  
hothouse vegetables and on the content of vitamin C in them.  
Dop. ta pov. L'viv. un. no.7 - pte. 3:133-138: '57. (MIRA 11:2)  
(Vegetables) (Trace elements)  
(Ascorbic acid)

GREBINSKIY, S.Y., professor.; BURLAK, A.I.; RUBANYUK, Ye.A.;  
SKOROKHODOVA, I.A.

Effect of fertilizers on the dominance of characters in wheat and  
tomato hybrids. Izv. AN SSSR. Ser. biol. no.1:47-54 '56 (MLRA 9:5)

1. Gosudarstvenny universitet imeni I. Franko, Kafedra fiziologii  
rasteniy, Lvov.  
(FERTILIZERS AND MANURES) (TOMATOES--VARIETIES)  
(WHEAT--VARIETIES)

"APPROVED FOR RELEASE: 08/22/2000

CIA-RDP86-00513R001445810005-3

FARAFONOV, I.I., kand. tekhn. nauk; SEYFI, R.N.; VAGANOV, L.I.;  
RUBARKH, V.M.

Percussion roller bit. Met. i gornorud. prom. no.3:60-61  
(MIRA 17:10)  
My-Js '64.

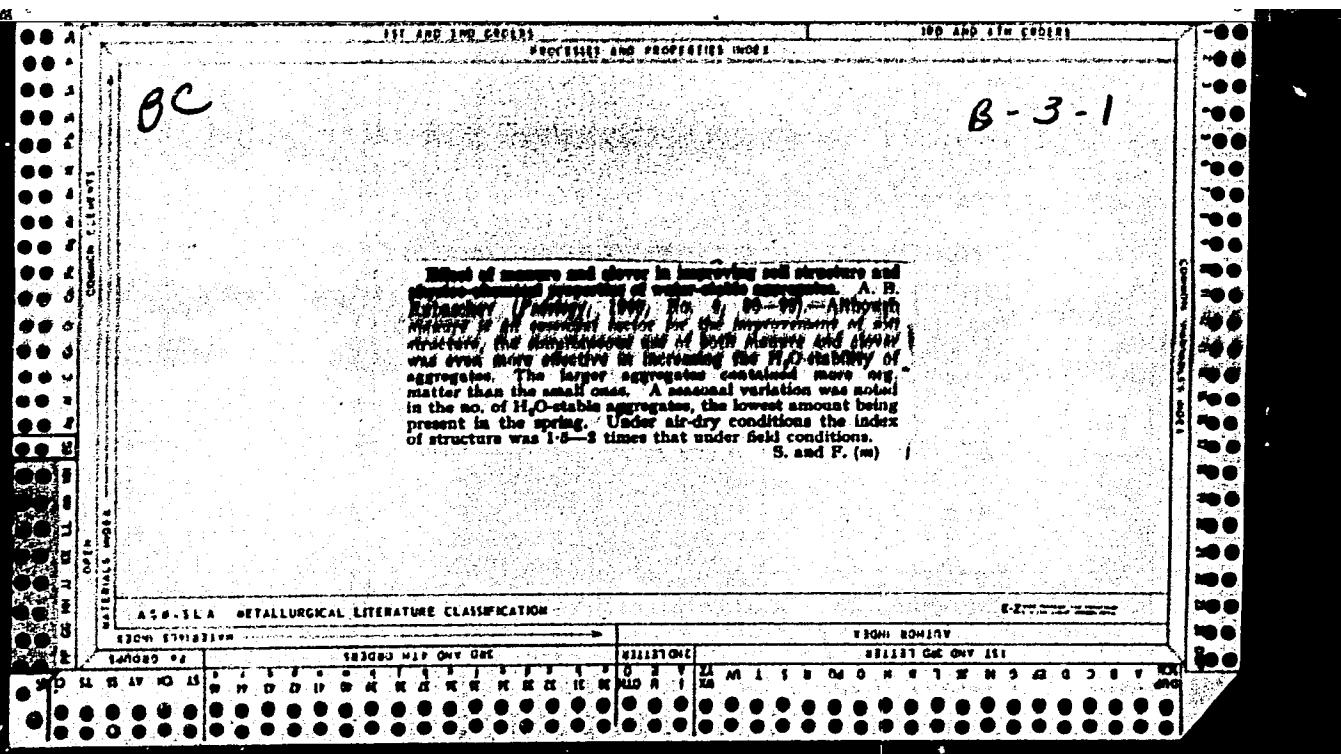
APPROVED FOR RELEASE: 08/22/2000

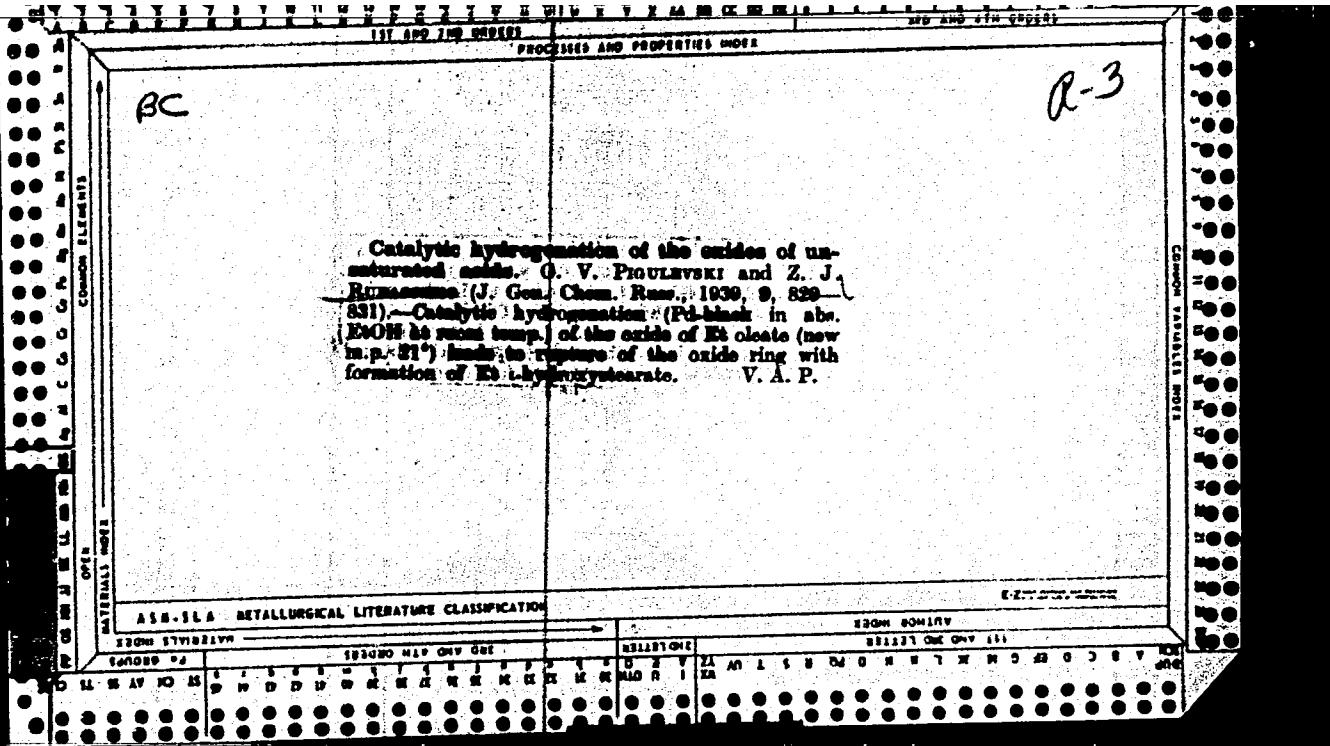
CIA-RDP86-00513R001445810005-3"

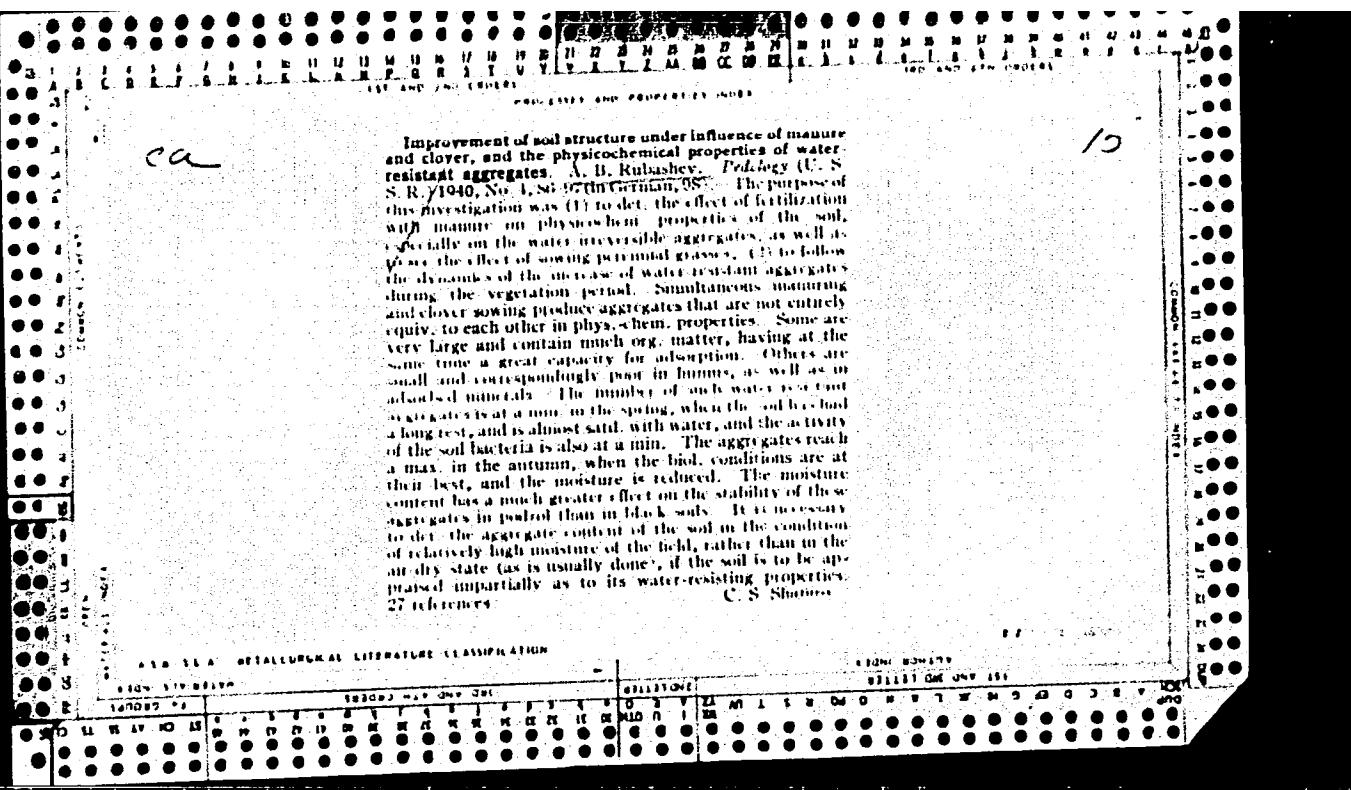
FARAFANOV, I.I., kand. tekhn. nauk; SEYFI, R.N., inzh.; VAGANOV, L.I., inzh.;  
RUBARKH, V.M., inzh.

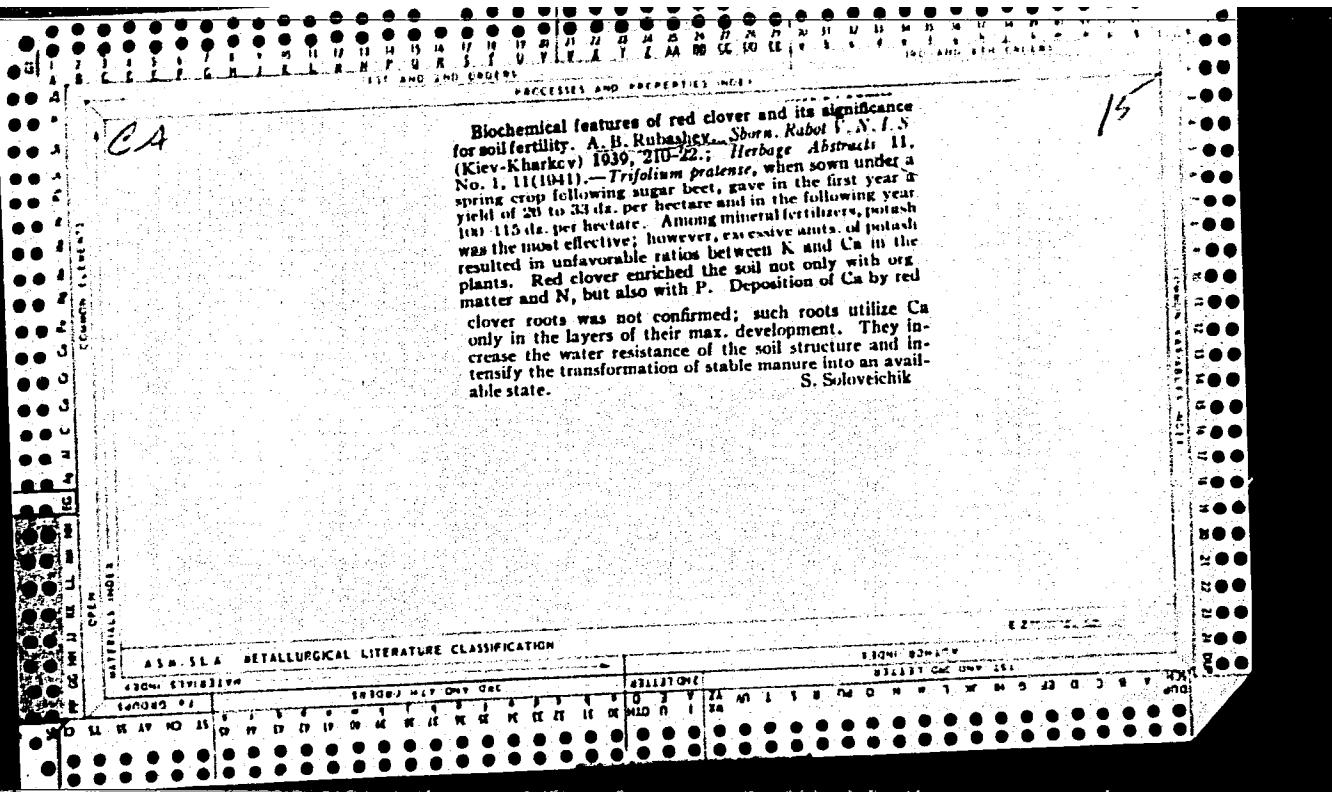
New type of combination drilling bits. Gor. zhur. no.6:69-70  
(MIRA 17:11)  
Je '64.

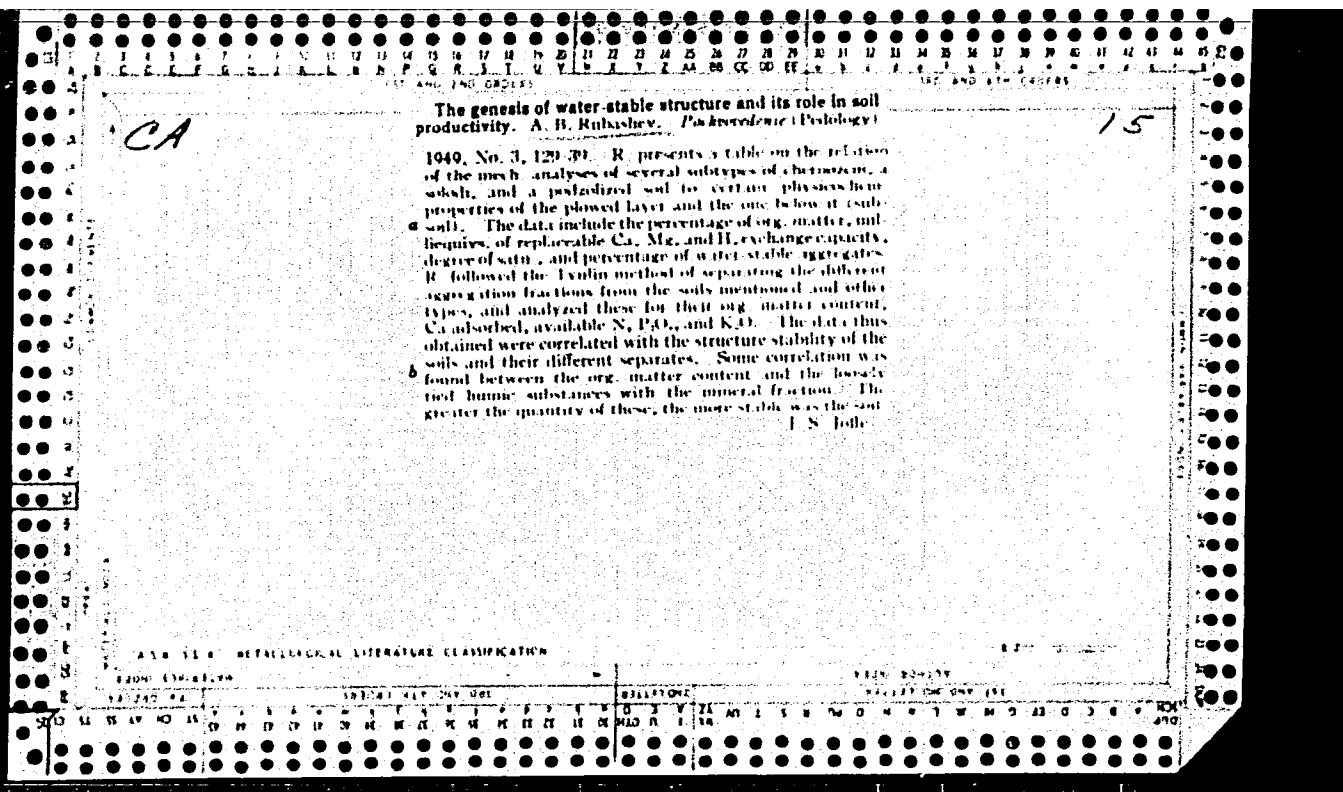
1. UkrNIIgiproneft', Kiyev.











CA

15

The role of the fertilization of sugar beets and the utilization of nutritive substances by sugar beets and oats. A. I. Bulashchuk. *Obzory Voprosov Nauk.-Issledovaniy Kubot VNTS na 1937*, 1939, 217-22; *Khim. Referat. Zhur.* 1940, No. 8, 60-7.—On coarse silt, podzolized soils, oats were sowed after sugar beets. The grain obtained after fertilizing the soil with large amounts of fertilizers contained N 1.07-1.88, P<sub>2</sub>O<sub>5</sub> 0.51-0.67 and K<sub>2</sub>O 0.41-0.44% and that in the control expts. contained N 1.68, P<sub>2</sub>O<sub>5</sub> 0.30 and K<sub>2</sub>O 0.37%. Oats absorbed the nutritive substances most actively during the period between the beginning of sprouting and the formation of branches. The accumulation of the org. matter in plants is closely connected with the absorption and accumulation of mineral substances. Oats grown on an excess fertilizer base prolonged the vegetation period by 8-10 days. Liming and addn. of large amounts of inorg. and org. fertilizers in conjunction with efficient agricultural methods can transform the soil in the course of 2-3 vegetation periods into a cultivated and fertile soil. Strong fertilization increased the water stability of the structure 1.6-2.0 times and the accumulation of the org. matter to double its initial value. W. R. Henn

## AS-1A METALLURGICAL LITERATURE CLASSIFICATION

SEARCHED <input checked="" type="checkbox"/> INDEXED <input checked="" type="checkbox"/> FILED <input checked="" type="checkbox"/>												EXTRACTS <input checked="" type="checkbox"/> TRANSLATED <input checked="" type="checkbox"/> ABSTRACTED <input checked="" type="checkbox"/>											
SEARCHED				INDEXED				FILED				EXTRACTS				TRANSLATED				ABSTRACTED			
S	E	M	D	S	E	M	D	S	E	M	D	S	E	M	D	S	E	M	D	S	E	M	D
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24

DINABURG, A.D., prof.; RUBASHEVA, A.Ye., prof.

Significance of changes in the configuration of the intervertebral foramina in the pathogenesis of lumbosacral polyradiculitis. Sovet. med. 27 no.6:119-124 Je'63 (MIRA 17:2)

1. Iz Instituta fiziologii imeni A.A. Bogomol'tsa (direktor akademik AN UkrSSR A.F. Makarchenko) AN UkrSSR i Instituta usovershenstvovaniya vrachey (direktor M.N. Umovist) Ministerstva zdravookhraneniya UkrSSR.

БУРАШКИН, Б.К.

1. Из Саратовской Городской санитарно-эпидемиологической  
станицы.

2. В. Саратовская Серотипес от Бешертической коли в иммун.  
Больше от специфических серотипов от Бешертической коли в иммун.  
дифтерии. Знам. № 4:129-130  
Арх. № 59.

(ДИАРХИЯ, в инт. & чилда.)  
Б. коли (Рус.)  
(БЕСЧЕРТИЧНАЯ КОЛИ, инфекц.)

дифтерии в инт. (Рус.)

RUBASHEV, B. M.

"On the Localization of Centers of Geoactive Radiation in the Sun's Active Regions," Dokl. AN SSSR, 25, No.7, 1939

Solar Service, Main Astronomical Observatory, Pulkovo

RUBASHEV, B. M.

"Problem concerning the synchronism of appearance of solar-activity impulses," Astron Zhur., 17, No 6, 1940.

Report U-1518, 23 Oct 1951

RUBASHEV, B. M.

"Cold Springs and Impulses of Sun Activity," Dokl. AN SSSR, 26, No.8, 1940

Solar Service, Main Astronomical Observatory, Pulkovo

RUBASHEV, B. M.

"Impulses of Solar Activity and Temperature in the Free Atmosphere," Dokl. AN  
SSSR, 27, No.8, 1940

RUBASHEV, B. M.

"The Sun and the Alteration of Symptotic Processes in the Transition Period of  
the Seasons," Dokl. AN SSSR, 30, No.5, 1941

Solar Service, Main Astronomical Observatory, Pulkovo

1. RUBASHEV, B. N., BEZRUKOVA, A. Ya.
2. USSR (600)
4. Meteorology - Observations
7. Interseasonal break of synoptic processes, length of the synoptic year, and solar activity. B. N. Rubashev, A. Ya. Bezrukova. Izv. Vses. geog. ob-va 79, No. 3, 1947.

9. Monthly List of Russian Accessions, Library of Congress, May 1953. Unclassified.

RUBTSNEV, B. M.

Eyzenson, M. S., Gnevyshev, M. N., and OL', A. I., --Solnechnaya aktivnost' i evo zemnyye proyavleniya. Moscow, 1943.

33 p.

A reference manual for astronomers, geophysicists, and research scientists working on the propagation of radio waves, dealing with problems of solar activity and its effects on earth; published as a Govt. Edition of Technical-Theoretical Literature.

1. Russia--Physics--Research
2. Russia--Electronics--Research
3. Russia--Electronics--Research--Wave Propagation

i. Solar activity and its results on the earth

ii. Gnevyshev, M. N.

iii. Rubtsnev, B. M.

iv. Title

"APPROVED FOR RELEASE: 08/22/2000

CIA-RDP86-00513R001445810005-3

RUBASHEV, B. M.

"The Connection Between the Emergency of Sun Spots and the Sun's Magnetic Field," Priroda, No.1, 1949

APPROVED FOR RELEASE: 08/22/2000

CIA-RDP86-00513R001445810005-3"

RUBASHEV, B. M.

35166. K Voprosu Ob Otsenke Dostovernosti Rezul'tatov, Poluchennykh Pri Pomoshchi Solnechogo Kalendarja. Byulleten' Komissii Po Issledovaniyu Solntsa (Akad. Nauk SSSR), No. 2, 1949, s.5-7

SO: Letopis' Zhurnal'nykh Statey, Vol. 48, Moskva, 1949

RUBASHEV, B.M.

28918. O'Fizcheskom Sostoyanii Atmosfer Venery i Yupitera. Prirodă, 1949, №. 9  
S. 44-45. BiBdiogr: 5 Nazv.

SO: Letopis' Zhurnal'nykh Statey, Vol. 39, Moskva, 1949

RUBASHEV, B. M.

35165. K. Voprosu O Vozmoezhnosti Sushchestvovaniya Solnechnykh Tsklov Boles  
Vysokikh Poryadkov. Byulleten' Komissii Po Issledovaniyu Solntsa (Akad. Nauk  
SSSR), No. 2, 1949, S. 31-34-Bibliogr: 9 Nazv.

SO: Letopis' Zhurnal'nykh Statey, Vol. 48, Moskva, 1949

PA 37/49T108

USSR/Physics  
Solar Energy  
Atmosphere

Tab 49

"Activity of Jupiter's Belt and Solar Energy,"  
B. M. Rubashev, 1 p

"Priroda" No 2

In 1937, A. M. Bakhrer (Stalinsk Astr. Obs) estimated relative intensities of cloud belts on Jupiter. Rubashev interprets results as proof that Jupiter's belts are traces of latitudinal transference of atmospheric masses. But I. A. Vitel's has recently shown that magnitudes of

USSR/Physics (Contd)

Feb 49

27 Act 108

zonal transference in the earth's atmosphere are connected with prolonged fluctuations in solar activity. Therefore, relative darkness of Jupiter's belts should prove valuable indication of solar activity.

RUBASHEV, B. M.

37/49T 108

"APPROVED FOR RELEASE: 08/22/2000

CIA-RDP86-00513R001445810005-3

RUBASHEV, B. M.

"Physical Composition of the Atmosphere of Venus and Jupiter," Priroda, No.9, 1949

APPROVED FOR RELEASE: 08/22/2000

CIA-RDP86-00513R001445810005-3"

RUBASHEV, B.M.

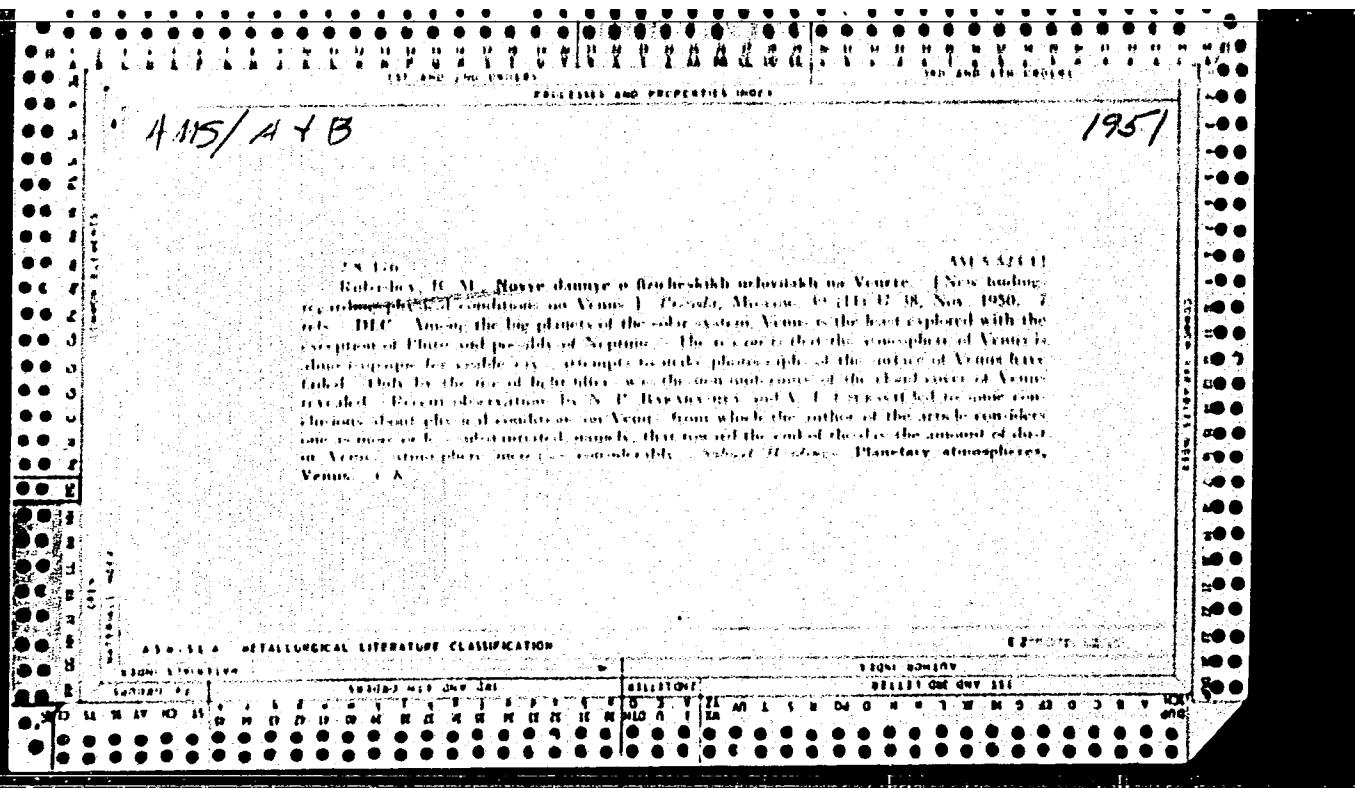
USSR/Astronomy - Solar Studies Static, Jul 50  
Radio Interference

"New Data on the Chromospheric Ejections," B. M.  
Rubashev

"Priroda" No 7, pp 47-49

Subject eruptions are momentary manifestations of small but very bright hydrogen floccules, which have been studied in detail by V. N. Zuykov, V. N. Kucherova, M. S. Evgenson, M. N. Gnevyshev, A. I. OI', B. M. Rubashev (see their "Solar Activity and Its Terrestrial Manifestations," GTTI (State Publ House for Tech and Theoretical Lit), 1948).

219T51



RUBASHEV, B. M.

UESR/Astronomy - Atmospheres of Planets Feb. 51

"Similarity Between Many-Years' Fluctuations in Atmospheric Circulation of Earth and Jupiter," B. M. Rubashev

"Priroda" No 2, pp 51,52

New investigations of the Sun's action on the lower layers of the Earth's atm prove that atm fluctuations originate in circulation processes and the latter depend on solar activity. Recent studies of the atm of big planets, particularly of Jupiter's, which is well known for the different rotational speeds of its bands, are related to components of solar radiations that clearly affect the atm circulations on Earth and Jupiter.

213F3

RUBASHEV, P. M.

USSR/Astronomy - Mercury

Nov 51

"Traces of an Atmosphere on Mercury," B. M.  
Rubashev

"Priroda" No 11, pp 47, 48

Fu. N. Lipskiy's discovery of traces of an atm on  
the Moon implies the possible presence of a rare-  
fied atm also on Mercury, although its velocity of  
escape" is only 3.8 km/sec (cf. "Dok Ak Nauk SSSR"  
Vol LIV, 1949, pp 465-467). Concludes that gases  
are being continually created on the surface of  
the planet Mercury to offset the obvious loss of  
gases due to low escape velocity and high temps

2071

USSR/Astronomy - Mercury (Contd)

Nov 51

resulting from propinquity to the Sun. According  
to O. V. Dobrovolskiy's mechanism the Sun's heat  
on Mercury's surface could cause the evolution of  
such gases (cf. "Byulleten' Kom po Issled Solntsa"  
No 1 (15), 1949).

2071

*HMS-NATO**General Circulation**B. M. RUBASHEV*

44-123  
531 513.2.351 MR3.3A15.1  
*Rubashev, B. M., Vokovye izmenenija skorosti vrazhchenija zemli i nekotorye cherty obshchego tsirkulyatsii zemnoi atmosfery v geologicheskikh problemakh [Secular change in the speed of rotation of the earth and some notes in the general circulation of the earth's atmosphere in the geological past]. Vestn. geograf. kres. (Obshchestvo, Izdat.), 83(2):152-155, March-April 1951. 15 refs., table, 2 equations. D.L.G. The author tests the hypothesis of P. I. Brusovoy that the more rapid rotation of the earth alone, its axial during past geological ages led to a displacement of the subtropical anticyclones to lower latitudes and hence to the ice ages. On the basis of evidence of the gradual diminution of the earth's angular velocity, the latitudinal position of the subtropical anticyclones during the various geological periods is determined. It is concluded that while in earlier geological ages the paths of the cyclones were in lower latitudes than at present, nevertheless the principal cause of glaciation was the cyclical variation of a climate resulting from the cyclical variation of solar activity. Subject Headings: 1. General circulation. 2. Geological climates. 3. Rotation of the earth.—J.I.D.*

NURASHEV, B. N.

The Sun, General Problems (3102)

Byull. Komissii po Issled. Solntsa, No. 3-9, 1953, pp 6-10

Separation of the General Circulation on the Sun

Assumes that the general circulation on the sun consists of several streams, flowing from the pole to the equator and vice-versa. Finds the zonal pressure gradient three times weaker than the meridional.

SO: Referativnyi Zhurnal -- Astronomiya i Geodezika, No. 4, 1954 (W-30907)

RUBASHEV, B.M.

Solar System, "Large Planets (1808)  
Byull. Kom. po issled. Solntsa, No 8-9, 1953, pp 47-57

Rubashev, B.M.

"Appearance of Variations in the Activity of the Sun in the Circulation of the Atmosphere of Jupiter."

Shows a relation between the variations noted in the period of rotation of Jupiter and variations in solar activity.

SO: Referativnyy Zhurnal—Astronomiya i Geodeziya, No 1, Jan 54;  
(W-30785, 28 July 1954)

RUBASHEV, B. M.

"Contemporary Studies on Circulatory Processes on the Sun"

Izvest. Vsesoyuz. Geograf. Obshch., No. 6, Nov/Dec 54

SHCHERBAKOV, D.I., akademik; BABAT, G.I., prof. doktor tekhn. nauk; ZHELTENKOV, V., inzh.; VERD'YE, Zhan, zhurnalista (Frantsiya); RUBASHEV, B.; GRIGOR'YEV, S., inzh.; SAUKOV, A.A.; VASIL'YEV, M., inzh.; POMAZOVICH, N., prof.; GALINA, L.M., muzykovod-fol'klorist; KERSHNER, D., biolog; BUDYKO, I., prof.; SEMENOV, S., zhurnalista.

Discoveries to be made. Znan. sila 32 no.11:27-32 N '57. (MLRA 10:11)

1. Ispolnyayushchiy obyazannosti uchenogo sekretarya Glavnoy astronomicheskoy observatorii (for Rubashev). 2. Chlen-korrespondent AN SSSR (for Saukov). 3. Direktor Glavnoy geofizicheskoy observatorii im. A.I. Voejkova (for Budyko).

(Science)

RUBASHEV, B., kand. fiz.-mat. nauk; LYAPUNOV, B., inzh.; KLEBTSEVICH, Yu.,  
kand. tekhn. nauk.

What induces mankind to conquer new planets? Znan. syla 32 no.11:  
40 N '57. (MIRA 10:11)  
(Planets) (Science)

124-58-9-10059

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 9, p 88 (USSR)

AUTHOR: Rubashev, B. M.

TITLE: Geomagnetic Activity and Types of Atmospheric Circulation  
(Geomagnitnaya aktivnost' i tipy atmosfernoy tsirkulyatsii)

PERIODICAL: Solnechnyye dannyye, 1957, 1958, Nr 5, pp 115-118

ABSTRACT: Bibliographic entry

1. Terrestrial magnetism 2. Atmosphere--Motion

Card 1/1

82475

S/035/60/000/04/03/017  
A001/A001

Translation from: Referativnyy zhurnal, Astronomiya i Geodeziya, 1960, No. 4,  
p. 41, # 3163

3.1540

AUTHORS: Rubashev, B. M., Svechnikova, G. P.TITLE: On Interaction of Hydrodynamic and Electromagnetic Factors in the  
Convective Zone of the Sun ✓

PERIODICAL: Solnechnyye dannyye, 1958 (1959), No. 11, pp. 58-59

TEXT: As was shown by Alfven and Ludquist, the electromagnetic factor proves to be important for the motion if  $H_0 L / \sqrt{\rho} \gg 1$ , where  $H$  is magnetic field intensity,  $\rho$  is electric conductivity,  $L$  is motion scale, and  $\rho$  is density. The authors hold that turbulent conductivity  $\sigma_T$  should be considered in the solar convective zone, rather than "gas kinetic" conductivity  $\sigma$ . Denoting magnetic viscosity by  $\eta_m = 1/\mu\sigma$  ( $\mu = 1$ ) and introducing the Reynolds magnetic number  $R_m = vL_1/\eta_m$ , where  $v$  is motion velocity and  $L_1$  is characteristic length for the spectrum of turbulence, and magnetic turbulent viscosity  $\chi_m = R_m \eta_m = 10^{-12}$  ( $L_1 \sim 10^8$ ,  $v \sim 10^2$  cm/sec). ✓

Card 1/2

82475  
S/035/60/000/04/03/017  
A001/A001

On Interaction of Hydrodynamic and Electromagnetic Factors in the Convective Zone of the Sun

If this quantity is used for estimating the role of electromagnetic forces, it turns out that although the interaction of electromagnetic and hydrodynamic forces in the convective zone, sunspots proper excluding, takes place, but it is not so high as was held before. There are 5 references.

E. Ye. Dubov

Card 2/2

SOV/169-59-4-4246

Translation from: Referativnyy zhurnal, Geofizika, 1959, Nr 4, p 145 (USSR)

AUTHOR: Rubashev, B.M.

TITLE: On the Heating of the Upper Layers of the Earth's Atmosphere  
During Magnetic Storms

PERIODICAL: Izv. Gl. astron. observ. v Pulkove, 1958, Vol 20, Nr 6, pp 66-76  
(Engl. Res.)

ABSTRACT: The heating of the atmosphere at the E layer level during magnetic storms in the aurora polaris zone is discussed. Two heating processes are considered, caused by: a) elastic collisions of solar protons with air molecules; b) Joule heat. Various assumptions on the concentration and the velocity of solar protons entering the atmosphere are made. The current of conductivity perpendicular to the lines of force in the geomagnetic field is taken into account for computing the heating by Joule heat. The different heat effluence processes are also taken into account. The molecular heat conduction and the horizontal macroturbulent exchange turned out to be most considerable. The equation of the unsteady

Card 1/2

(initial circled)

68570

SOV/35-59-11-9027

3.1540

Translation from: Referativnyy zhurnal, Astronomiya i Geodeziya, 1959, Nr 11, p 54  
(USSR)

AUTHOR: Rubashev, B.M.

TITLE: Some Questions on the Sub-Photospheric Stratification and Circulation  
on the Sun

PERIODICAL: Izv.Gl.astron.observ. in Pulkovo, 1958, V 21, Nr 3, pp 39 - 62 (Engl.res.)

ABSTRACT: During the past thirty years, the notions about the composition of the sub-photospheric layers of the sun have undergone an essential change. At the end of the twenties it was supposed that these layers were in a state of radiative equilibrium. In 1931 Unsold pointed out the presence of a convective zone in these layers, however, at that time it was considered that it possessed a very insignificant vertical extension. The later studies of Birman and Witense showed that, in reality, the convective zone stretches at least for a depth of several tens of thousands of kilometers (into the sub-photospheric layers). The inner zone of the radioactive equilibrium is situated lower down. A distribution pattern of temperature, density and pressure over the depth is cited both for

Card 1/3 ✓

SOV/35-59-11-9027

Some Questions on the Sub-Photospheric Stratification and Circulation on the Sun

this zone and for the convective zone: according to Mott's - Epstein models for the inner zone of radiative equilibrium, and according to the Witense model for the convective zone. Some observational data are cited, illustrating the connection between the laws of Sperer and Schwabe-Wolf. The supposition that the displacement of the spot forming zone during an 11-yearly cycle is caused by the general circulation, is justified. In connection with this, meridional currents must occur in the convective zone, moving at a speed of  $\sim 1$  m/sec. At the same time, in the inner zone of the radiative equilibrium, the meridional currents, apparently, spread at a much lesser speed, near to the speeds of so-called Eddington's current. Under such conditions, at the bottom of the convective zone, the adhesion conditions are practically fulfilled. The lower part of the convective zone appears to be a peculiar planetary boundary layer. The properties of this layer can be studied by the same method used by N.Ye. Kochin, for studying the general circulation in the Earth's atmosphere. It became clear, that the main property of the circulation in the planetary boundary layer, i.e., that the ratio of the vertical speed to the horizontal speed should be equal to the ratio of the depth of the layer to the radius of a celestial body, - for the sun takes place only in the case of steady circulation. The existence of the total

Card 2/3

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68570

SOV/35-59-11-9027

Some Questions on the Sub-Photospheric Stratification and Circulation on the Sun

magnetic field, under an assumption that it has the character of the dipole field, with a strength of  $\sim 1$  oersted, leads to the conclusion, that in the case of ordinary conductivity, the zonal steady motions in the planetary boundary layer of the sun are altogether impossible. If the conductivity is turbulent, the electromagnetic force is considerably less than the Coriolis force, and as a result, the well known hydro-dynamic relation between the thickness of the layer, on the one hand, and the forces of viscosity and Coriolis on the other, is obtained. This relation allows, in particular, to find the approximate value of the boundary heliographic latitude of the sun's spots. Bibl. Forty titles.

According to the author's résumé

Card 3/3

S/169/60/000/006/020/021  
A005/A001

Translation from: Referativnyy zhurnal, Geofizika, 1960, No. 6, pp. 185-186,  
# 6816

AUTHOR: Rubashev, B. M.

TITLE: Geomagnetically Disturbed and Geomagnetically Quiet Days as Registration Marks of the Quality Characteristics of Atmospheric Circulation

PERIODICAL: Solnechnyye dannyye, 1959, No. 3, pp. 86-87

TEXT: In addition to calculations performed earlier (RZhGfiz, 1958, No. 10, # 7,528; 1959, No. 12, # 12,439), curves of the relative frequencies are plotted of the phenomenon of Dzerdzevskiy circulation mechanisms on geomagnetically quiet and geomagnetically disturbed days during the ascending and descending branches of the 11-year cycles from 1901 to 1948. On geomagnetically quiet and geomagnetically disturbed days, the curves show symmetrical course.

L. N. L.

Translator's note: This is the full translation of the original Russian abstract.

Card 1/1

3,9100

82930

S/169/60/000/006/013/021  
A005/A001

Translation from: Referativnyy zhurnal, Geofizika, 1960, No. 6, p. 164, # 6630

AUTHOR: Rubashev, B. M.

TITLE: On the Distribution of the Relative Frequencies of B. L. Dzerdzevskiy Circulation Mechanisms in the Neighborhood of Geomagnetically Disturbed and Geomagnetically Quiet Days

PERIODICAL: Solinechnyye dannyye, 1959, No. 4, pp. 80-81

TEXT: Types of circulation mechanisms in the troposphere are considered on days following geomagnetically quiet and geomagnetically disturbed days. It turned out that the concentration of certain types is different for various 11-year cycles, i. e., the manifestations of the solar activity in the troposphere have a cycle longer than 11 years.

L. N. L.

Translator's note: This is the full translation of the original Russian abstract.

Card 1/1

89787

S/169/61/000/003/004/022  
A005/A005

3,1800 (1041,1062,1178)

Translation from: Referativnyy zhurnal, Geofizika, 1961, No. 3, pp. 63-64,  
# 3B507

AUTHOR: Rubashev, B. M.

TITLE: On the Estimation of the Statistical Connection Between the Geomagnetic Activity and the Types of Atmospheric Circulation

PERIODICAL: "Solnechnyye dannyye", 1960, No. 3, pp. 65-67

TEXT: The author evaluated the validity of the earlier obtained by him coefficient of correlation between the curves of the relative recurrence frequencies of any circulation processes in the vicinity of geomagnetically quiescent and geomagnetically disturbed days. The validity of these values is verified by the introduction of the a priori correlation coefficient which takes into account the selection volume of days with respect to the total volume of days and in this way eliminates any erroneous correlation. The obtained results corroborate the existence of a negative correlation between the curves of quiescent and disturbed days, but it is ascertained that, in a period of decreased solar activity and

X

Card 1/2

89787

S/169/61/000/003/004/022  
A005/A0C5

On the Estimation of the Statistical Connection Between the Geomagnetic Activity  
and the Types of Atmospheric Circulation

partly on the descending leg of the 11-year solar cycle, the opposite behavior of  
the atmospheric circulation of the northern hemisphere in the vicinity of geomag-  
netically disturbed and geomagnetically quiescent days, respectively, is more  
obviously expressed not for these days proper but for days being distant from  
those by +2, +3 days. In this way, the assumption is corroborated that the  
appearance of the geomagnetic activity in the troposphere depends on the phase of  
the long-term solar cycle. X

I. Sitnikov

Translator's note: This is the full translation of the original Russian abstract.

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3,1800 (1041, 1046, 1559)  
3.5150

36270  
S/035/61/000/010/022/034  
A001/A101

AUTHOR: Rubashev, B.M.

TITLE: Intraannual fluctuations of solar activity and negative anomalies of atmospheric circulation

PERIODICAL: Referativnyy zhurnal. Astronomiya i Geodeziya, no. 10, 1961, 60, abstract 10A425 ("Solnechnyye dannyye", 1960, no. 6, 66 - 71)

TEXT: The author singled out various months for those years when the frequency of one or another group of circulation mechanisms, following classification of B.L. Dzerdzevskiy, was less than the average for the given month (taken from many years) by more than one standard deviation. For these years, Wolf numbers for the given month and for 6 preceding and 6 following months were written down. The maximum value of the Wolf number in the obtained series of 13 months was taken for 100%, and the remaining values were expressed in % of that value. Then the process of averaging was carried out. The curves plotted according to these average values were sorted out observing the following sign: an extremum of the curve of Wolf numbers, reduced by the mentioned method, must precede or coincide with the month in which a negative anomaly was discovered

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SOURCE CODE: UR/0269/66/000/002/0052/0052

AUTHOR: Rubashov, B. M.

TITLE: Distribution of angular velocity of the Sun's rotation with depth of penetration under conditions of radiation equilibrium

SOURCE: Ref. zh. Astronomiya, Abs. 2.51.421

REF SOURCE: Izv. Gl. observ. v Pulkove, v. 24, no. 2, 1965, 41-48

TOPIC TAGS: celestial body motion, solar photosphere, mathematic analysis, integration

ABSTRACT: A numerical integration was made of the equation on the balance of the angular momentum for determining the effect of the linear depth of penetration on the angular velocity of the Sun's rotation:  $\frac{d}{dt}(\rho r^4 \omega) = \frac{d}{dt} \left[ k r^4 \frac{d\omega}{dr} - \frac{3}{5} H r^4 \omega \right]$ ,

where  $H$  is the radiation flux,  $k$  is the product of viscosity and square of the light velocity, and  $\rho$  is the density. The integration was made for those regions of the Sun where the density is small and the left part of the equation is equal to zero and  $Z \approx 1/2 R_\odot$ . Then the equation acquired the form of  $k r^4 \frac{d\omega}{dr} - \frac{3}{5} H r^4 \omega = -\frac{3}{5} H_0 r_0^4 \omega_0$ .

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or  $\frac{d\omega}{dr} - \frac{3H}{5k} \omega + \frac{3H_0 r_0^4}{5kr^4} \omega_0 = 0$ , and its solution had the form of  $\omega = \omega_0 + A\omega_0(r_1 - r_0) + \frac{B}{3} \left( \frac{1}{r_1^2} - \frac{1}{r^2} \right)$ :

where  $A = \frac{3H}{5k}$ ,  $B = \frac{3H_0 r_0^4 \omega_0}{5k}$ . The model of the subphotospheric layers of the Sun had to be selected to provide for numerical integration. The Witense model (1958) was taken for the convection zone; there all the characteristics from the upper boundary with  $\bar{T} = 0.8$  to  $\bar{T} = 2.0$  are given as the functions of  $\bar{T}$ , then as the functions of  $\log T$  up to the level with  $\log T = 6.00$ , which corresponds to  $Z = 98,500$  km. According to Witense, this point is situated in the region of radiation equilibrium deeper than the convective zone. The conditions in this level were taken as initial during integration. The Weyman model, in which the upper point corresponds to a depth of  $Z = 112,000$  km, was taken for an internal zone of radiation equilibrium. The two models were correlated, i.e., continuity was obtained for the values  $T$  and  $P_g$ . The coefficient of continuous absorption was calculated for all values of  $Z$  from the formula  $\chi = 1025.252 \cdot P \cdot T^{-3.8}$ . The composite model of the subphotospheric layers was represented by the table of values  $Z$ ,  $T$ ,  $\log P_g$ ,  $P$ ,  $\chi$  from  $Z = 1.58 \times 10^5$  cm and  $T = 6.3 \times 10^3$  K to  $Z = 3.48 \times 10^{10}$  cm and  $T = 3.43 \times 10^6$  K,  $P_g = 6.14 \times 10^{14}$ ,  $P = 1.3$ ,  $\chi = 5.89$ . The problem on the nature of viscosity in these layers was clarified. The gas kinetic viscosity, calculated by Edmons, was compared with the calculated radiation viscosity  $\eta_R = 4aT^4/15xpc$ , where  $a = 7.567 \times 10^{-15}$  erg/cm<sup>3</sup> degree<sup>4</sup>. The curve plotted showed that the radiation viscosity predominated in the internal zone of the radiation equilibrium. Its values were tabulated for all values used of  $Z$ .

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